

CR3-005GPP SERIES

**GLASS PASSIVATED JUNCTION
GENERAL PURPOSE
SILICON RECTIFIER
3 AMP, 50 THRU 1200 VOLTS**

**DO-201AD CASE**www.centralemi.com**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR3-005GPP Series types are 3.0 Amp Glass Passivated Junction Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

		CR3 -005	CR3 -010	CR3 -020	CR3 -040	CR3 -060	CR3 -080	CR3 -100	CR3 -120	
	SYMBOL	GPP	GPP	GPP	GPP	GPP	GPP	GPP	GPP	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	V_R	50	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	V
Average Forward Current ($T_A=55^{\circ}\text{C}$)	I_O					3.0				A
Peak Forward Surge Current	I_{FSM}					150				A
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +150					$^{\circ}\text{C}$
Thermal Resistance	Θ_{JA}				20					$^{\circ}\text{C/W}$

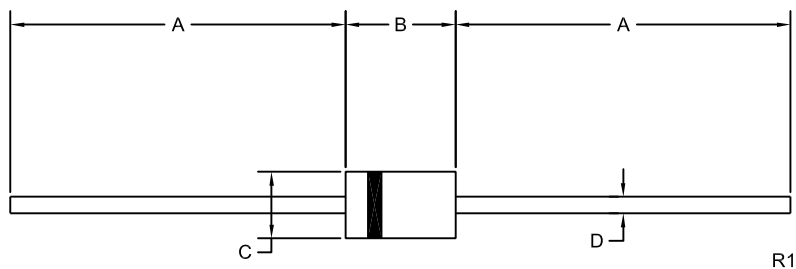
ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$		100	μA
V_F	$I_F=3.0\text{A}$		1.2	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	30	50	pF

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DO-201AD CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.000	-	25.40	-
B	0.283	0.375	7.20	9.53
C	0.189	0.210	4.80	5.33
D	0.047	0.052	1.20	1.32

DO-201AD (REV: R1)

MARKING: FULL PART NUMBER

R4 (24-October 2011)